

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------------------|-----------------|----------------------|---------------------|------------------|
| 09/872,188 | 06/01/2001 | David C. Mullen | 7 | 2918 |
| 34847 AVAYA INC. | 7590 05/09/2007 | • | EXAMINER | |
| 307 MIDDLETOWN-LINCROFT ROAD | | | TO, JENNIFER N | |
| ROOM 1N-391 LINCROFT, NJ 07738 | | | ART UNIT | PAPER NUMBER |
| , | | | 2195 | |
| | • | | | |
| | | • | MAIL DATE | DELIVERY MODE |
| | | • | 05/09/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | | |
|---|--|---|--|--|--|
| | 09/872,188 | MULLEN, DAVID C. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| ·. | Jennifer N. To | 2195 | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONI | N. imely filed not be mailing date of this communication. ED (35 U.S.C. § 133). | | | |
| Status | | , | | | |
| Responsive to communication(s) filed on 10 Ag This action is FINAL. 2b) ☐ This Since this application is in condition for allowar closed in accordance with the practice under E | action is non-final. nce except for formal matters, pr | | | | |
| Disposition of Claims | | | | | |
| 4) Claim(s) 1-5,20,21,23-25 and 38-41 is/are penda) Of the above claim(s) is/are withdray 5) Claim(s) 6-18,22,26-37 and 42-54 is/are allowed 6) Claim(s) 1-3,20,21,23,25,38 and 39 is/are rejectively Claim(s) 4,5,24,40 and 41 is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the content of the cont | vn from consideration. ed. cted. r election requirement. r. epted or b) □ objected to by the drawing(s) be held in abeyance. Se | ee 37 CFR 1.85(a). | | | |
| Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex | · · · · · · · · · · · · · · · · · · · | • | | | |
| Priority under 35 U.S.C. § 119 | armior. Hoto the attached office | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list | s have been received. s have been received in Applica rity documents have been receiv u (PCT Rule 17.2(a)). | tion No ved in this National Stage | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other: | Date | | | |

Application/Control Number: 09/872,188

Art Unit: 2195

DETAILED ACTION

1. Claims 1-5, 20, 21, 23-25 and 38-41 are pending for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-3, 20-21, 23, 25, and 38-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Zhao (U.S. Patent No. 6466664).
- 4. As per claim 1, Zhao teaches the invention as claim including a work management method comprising:

for a future point in time, determining a probability of availability of each resource (agent) of a plurality of resources (group of agents) at said future point in time, to obtain the probabilities of availability of the plurality of the resources (abstract, lines 5-11; col. 6, lines 49-56, I63-65,; col. 7, lines 12-16, 34);

combining together the determined probabilities of availability of the plurality of resources to obtain a number that is a result of the combining (col. 7, lines 15-17); and

Application/Control Number: 09/872,188

Art Unit: 2195

using the number to schedule new tasks (new calls) for the resources for the future point in time (col. 7, lines 21-23, 63-67; col. 13, lines 45-52).

Page 3

- 5. As per claim 2, Zhao teaches that wherein using the number to schedule new tasks comprises scheduling for the future point in time no more than the number of the new tasks to become available for servicing by the plurality of the resources (col. 13, lines 45-52).
- 6. As per claim 3, Zhao teaches that wherein combining together the determined probabilities comprises summing the probabilities to obtain the number (col. 7, lines 15-17).
- 7. As per claims 20-21, 23, 25, and 38-39, they are rejected for the same reason as claims 1-3 above.

Allowable Subject Matter

- 8. Claims 6-18, 22, 26-37, and 42-54 are allowable.
- 9. Claims 4-5, 24, and 40-41 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims.

Art Unit: 2195

Response to Arguments

10. Applicant's arguments with respect to claims 1-3, 20-21, 23, 25, and 38-39 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Flockhart et al. (U.S. Patent No. 6563920), Leamon (U.S. Patent No. 6970829), and Svoronos et al. (U.S. patent no. 5802161) teach method and system for predicting the availability of agents to handle calls in a call center.

Chapman et al., ("Predictive Resource Scheduling in Computational Grids",

Department of Computer Science, university College London, pages 1-15) teaches
system for predicting resource in computing grids.

Lesaint, ("Dynamic Workforce Scheduling for British Telecommunication plc", Interfaces 30, pages 45-56, 2000) teaches system for predicting/forecasting resource availability in telecommunication system.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer N. To whose telephone number is (571) 272-7212. The examiner can normally be reached on M-T 6AM- 3:30 PM, F 6AM- 2:30 PM.

Application/Control Number: 09/872,188

Art Unit: 2195

13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

14. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jennifer N. To Examiner

Art Unit 2195

MENG AL T. AN

OPPOSITION OF THE PROPERTY OF T

Page 5

TECHNOLOGY CENTER 2100